

FEASIBILITY OF USING CPT-4 CODES FOR
DRG ASSIGNMENT OF SURGICAL PATIENTS

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EXECUTIVE SUMMARY

This study examines the feasibility of assigning Medicare surgical patients to diagnosis related groups (DRGs) based on the Current Procedural Terminology (CPT-4) procedure codes obtained from physician billing forms. Rather than taking the approach of directly matching the CPT-4 code with the International Classification of Diseases (ICD-9) procedure codes used in DRG assignments, efforts were made to link the actual physician bills with hospital discharge abstract records which included DRGs. After initial reabstraction of hospital abstracts to assure correct selection and coding of diagnoses and procedures, over 31,000 Medicare surgical cases performed at Mayo Clinic affiliated hospitals from 1981 to 1983 were included. Successful merging with physician billing information was completed in over 96 percent of these cases.

In general, it appears that it would be feasible to develop a DRG grouper program for surgical patients using CPT-4 codes in lieu of ICD-9 procedure codes. We found that 68 to 88 percent of cases within an MDC were assigned the same DRG based on using for assignment the CPT-4 codes which predominate in each DRG. However, more time and effort needs to be given to the following areas before a reasonable grouper for use in administering a large volume program like Medicare could be produced:

- Which CPT-4 codes were "non-OR" procedures?
 - Should the CPT-4 grouper use the procedure hierarchy of the ICD-9 grouper?
 - Should combinations of codes be used to define DRGs rather than just a single code?
 - Which of the many discharges in DRG 468 could be appropriately assigned to other DRGs?
 - What should be done with respect to the annual updating of CPT-4?
- Broad-based surgeon input is necessary to make the development of a CPT-4 grouper possible.

INTRODUCTION

In their attempts to control the rising costs of Medicare, the Congress of the United States directed the Health Care Financing Administration (HCFA) to investigate various methods of payments and different ways of packaging payments for the health care services provided to Medicare beneficiaries. One of the methods which showed promise of controlling the increases in hospital costs was to adopt a prospective pricing system based on diagnosis related groups (DRGs). By having a pre-established payment for each hospital discharge, the hospital would not have the incentives to increase revenues by increasing the length or intensity of services. Since the DRG payment system appeared to work well in New Jersey and in the early stages nationwide, it seemed an appropriate move to consider extending the concept to include the physician payment for services rendered in the hospital either within, or in addition to, the discharged-based hospital payment. (Currently, physician services, whether inpatient or outpatient, are covered under Part B of the Medicare system which, depending upon the level of participation of the physician, pays a percentage of the reasonable charge for each covered service after the deductible is met. The physician-inpatient DRG system would "bundle" these services into one predetermined payment.)

The current DRG system bases hospital payment upon the DRG in which the patient's discharge is classified. The DRG is based on the patient's principal and secondary diagnoses, any surgical procedures (all coded in the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM)), age and discharge status. At the time this study was begun, physicians had used the Physician's Current Procedural Terminology, 4th Edition (CPT-4) for reporting their services for reimbursement. Since this coding system has been utilized by the medical community for a number of years, it appears useful to explore the possibility of incorporating the CPT-4 procedure code into the DRG system. If such a system could be accomplished, it might minimize the changes needed among the medical community in adapting to a new reimbursement mechanism in terms of paperwork, coding, training, and time. Previous attempts at developing a cross-index of CPT-4 procedure to ICD-9-CM procedure have not been completely successful. However, it was considered that since surgical DRGs are typically groups of procedures, fewer problems would exist in trying to collapse CPT-4 codes into DRGs.

In January of 1984, when this project was first proposed, HCFA was not in a position to intramurally carry out this type of project. Additionally, they did not anticipate having a nation-wide data base of specific surgical CPT-4 procedures which could be linked with hospital DRG records for several years.

DISCUSSION

Mayo Clinic Medicare Practice and Data System

During the time frame 1980-1983, the Mayo Clinic and its affiliated hospitals treated approximately 18,000 Medicare hospitalized patients annually, of which approximately 10,000 received in-hospital surgical services. During these years, all the Medicare hospital discharges have been abstracted using ICD-9-CM diagnosis and procedure codes and were assigned DRGs using the original Yale ICD-9 DRG grouper. In 1980, a data system, the Institutional Planning Data Base (IPDB), was developed to collect at the procedure level and summarize at the patient level all Mayo Clinic services (coded by Mayo procedure number) with associated charges. Besides the number and charge for each service, the location (clinic vs. hospital outpatient vs. hospital inpatient), CPT-4 code, and service date are also available. As the Mayo Clinic has been using a unit patient record for both hospital inpatient, outpatient and clinic services since the early 1900's, the IPDB was designed so that patient records could be linked by clinic number. It was expected that over 90 percent of the surgical Medicare patients during this time frame could be successfully merged, resulting in an actual patient discharge record with both the hospital-assigned DRG based on ICD-9 procedures and the physician-billed CPT-4 procedure codes for service dates within that hospitalization. (Failure to match up to 10 percent of the discharges could be expected due to the loss of records during the establishment of the original data base, the linkage of patient records with the year of patient registration rather than the year of surgery, and clerical errors in the recording of clinic numbers and dates.)

Reabstraction of Sample of Abstracts and Reassignment of DRGs

As the Medicare hospital discharges were abstracted for PSRO purposes prior to concurrent DRG assignment, and covered a time early in the use of ICD-9 coding, we felt it was important to reabstract a portion of the surgical discharges to verify that the proper diagnoses and procedures were identified, recorded and coded. Additionally, since 1980 some modifications have been made to the official DRG grouper. The DRG was redetermined for all the case which are included in the analysis data set.

Our reabstraction matching criteria called for declaring the original abstract in error if the reabstractor decided upon any change which would result in the assignment of a new DRG, whether it would be any diagnosis, procedure, patient age, or discharge status. If there were no changes or a change that would not affect the DRG assignment, the abstract would be declared correct.

A random sample of surgical abstracts was selected from 1983, so that each DRG had up to 10 percent of its cases (with at least 2 and no more than 10) reabstracted. In the resulting sample of 853 discharges, 19 cases (2.2%) were assigned different DRGs. Seven of these discharges in DRGs 104-107 (major heart surgery) had errors with respect to cardiac catheterization, while another four patients with percutaneous transluminal coronary

angioplasty (PTCA) were miscoded. As a result of this step, we accepted the reabstracts on the 19 cases, reviewed all the cases in DRG 112, and after appropriate modification accepted the 1983 data base as valid.

The next step taken was to draw a similar sample for 1980. Seven hundred and seventy-eight discharges were reabstracted, of which 112 (14.4%) were declared in error. Over half (61 cases) of the reassigned cases were due to disagreements in the selection and ordering of diagnoses. Based on this review, we excluded 1980 data from the remainder of the project and proceeded to review the 1981 data.

To minimize our reabstracting efforts for 1981, we selected up to a five percent sample within DRG (minimum of 2 cases, maximum of 5 cases per DRG) resulting in review of 455 discharges. Fifteen (3.3%) of these reabstracts resulted in a different DRG, with the only consistent reassignment occurring in DRGs 104-107 concerning the inclusion of cardiac catheterization.

Based on our favorable results of 1981 and 1983 (error rates of 3.3% and 2.2%), we decided to include all the surgical cases between 1981 and 1983 without specifically reabstracting the 1982 cases except to review the potential PTCA cases in DRG 112. This file of 31,697 Medicare discharges were then processed by the current grouper resulting in new DRGs being assigned to approximately 1700 cases. One hundred sixty-eight cases were moved from surgical DRGs to medical DRGs, while another large portion of cases were moved from DRG 468 to other DRGs. The resulting 31,513 discharges displayed by year and DRG are presented in Table 1.

Linkage of Discharge Abstracts with Procedures from Billing Data

In our first attempts in merging the abstract data with the procedure data from the billing files, we included any procedure which was performed as an inpatient during the hospital stay and fell into one of the following CPT-4 code ranges: 10000-69999, surgeries; 93501-93562, cardiac catheterizations; and 75750-75755, coronary angiographies. This process resulted in linking at least one procedure for 30,284 of the 31,513 (96.1%) Medicare surgical discharges for 1981-1983 [28,598 of 29,714 (96.2%) discharges when excluding DRG 468].

Generation of Cross Tabulations

From the merged data set, we next produced tabulations of all occurrences of CPT-4 codes within each DRG and all combinations of CPT-4 codes (up to 7 codes) within each DRG. Cases with more than seven different codes were listed. If a specific CPT-4 procedure was listed more than once for a discharge, the multiple occurrence was ignored. It was readily apparent that certain "non-operating room" procedures were being included on our tables which were not considered as surgeries for DRG assignment (e.g. CPT-4 codes 36000-introduction of needle into vein and 36600-arterial puncture) and that anesthesia services for most surgeries were being assigned a CPT-4 code of 32999. Before proceeding further, our RRAs developed a list of non-operating room CPT-4 procedures. We instructed our records experts to be conservative and if in doubt about the status of the procedure, to not include it on the list. This listing is provided as Appendix A.

After eliminating the listed codes and anesthesia services from our data base, the following reports were regenerated:

- a) frequencies of combinations of CPT codes by DRG,
- b) frequencies of CPT code occurrences by DRG, and
- c) frequencies of DRGs by CPT code.

Overall, 944 of the 28,598 (3.3%) matched discharges had only CPT-4 procedures which were classified as "non-OR" procedures with over half of these cases falling into the following DRGs: 157-158, anal and perianal procedures; 154-156, stomach, esophagus and/or duodenum procedures; 310-311, transurethral procedures; 201, other hepatobiliary and/or pancreas procedures; and 303-305, kidney, ureter and/or major bladder procedures. Most of these discharges were billed for various endoscopy procedures, various types of hemorrhoidectomies, percutaneous liver biopsies, and cystourethroscopies; meanwhile the discharge abstract may include an excision, an unspecified hemorrhoidectomy, an unspecified liver biopsy, or a bladder or ureter biopsy, respectively.

Table 2 presents for each major diagnosis category (MDC) the number of Medicare surgeries performed in 1981-1983 and the number of cases in our data base after excluding "non-OR" procedures.

For DRGs with at least 20 cases, the number of CPT-4 codes encountered within that DRG ranged from two for DRG 232, arthroscopy, to 190 for DRG 442, other O.R. procedures for injury, poisoning, etc., (DRG 468 had 339 individual CPT-4 codes). There were 13 CPT-4 codes with at least 20 cases which were each encountered in only one DRG group:

- 23420-repair of chronic complete shoulder cuff avulsion;
- 27705-tibial osteotomy;
- 31368-subtotal supraglottic laryngectomy with radical neck dissection;
- 37720 and 37721-unilateral or bilateral ligation and division and complete stripping of saphenous veins;
- 46255-simple hemorrhoidectomy , internal and external;
- 50320-unilateral donor nephrectomy from living donor;
- 57265-combined anteroposterior colporrhaphy with enterocele repair;
- 58270-vaginal hysterectomy with repair of enterocele;
- 63030-unilateral lumbar laminotomy for herniated disk and/or decompression of nerve root on one interspace;
- 65105-enucleation of eye with muscles attached to implant;

67143-prophylaxis retinal detachment via cryotherapy; and

68720-dacryocystorhinostomy.

Meanwhile, three CPT codes were each encountered in over 100 DRGs:

17999-unlisted procedure, skin, mucous membrane, and subcutaneous tissue (108 DRGs);

52100-cystourethroscopy (109 DRGs); and

69999-unlisted procedure, miscellaneous surgery.

A total of 1521 different CPT-4 codes were encountered in 184 surgical DRGs. Table 3 provides by MDC counts and percentages for the discharges with only one CPT-4 code. Over two-thirds of the Medicare surgeries were associated with only one procedure, however, cardiovascular surgeries were well below this level.

An Attempt to Assign CPT Codes to Specific DRGs

In an attempt to filter some useful information from the cross tabulations, we decided to concentrate our efforts on the cases with only one CPT procedure. If only one procedure is performed on a patient, that operation should determine the appropriate DRG. If, however, more than one procedure is performed, the current DRG system uses a hierarchy in its assignment. As we were limited in our time and effort, we decided to defer the determination of the hierarchy of CPT procedures to future projects. Secondly, as this project concentrates strictly on procedural information, we have taken the liberty to collapse the DRGs into terminal procedure groups. Anytime that a group of surgeries is further subdivided by age, complication/comorbidity, diagnosis, or discharge status, we have not used that subdivision. For example, DRGs 1, 2 and 3 differ only by age of patient and/or a diagnosis of trauma, but contain the same group of surgeries. In order to have a more reliable representation of procedures, we report this group as DRG 1-3.

To develop the tables in Appendix B, we identified all the cases for each DRG grouping which had single CPT procedure codes. For example, for DRG 39, after eliminating "non-OR" procedures, the following 15 codes appeared as the only procedure for at least one discharge: 15834, 65875, 65920, 66800, 66820, 66840, 66920, 66940, 66945, 66980, 66985, 66999, 67299, 67400, and 68825. Next, it was determined among all cases within MDC 2, what percentage of all occurrences of each procedure fell into DRG 39. All the procedures within an MDC with more than half (>50%) of their occurrences in a single DRG have been assigned to one of three categories in that DRG. For example, within MDC 2 all occurrences for CPT code 66980 occurred in DRG 39. CPT code 66920 had 22 occurrences in DRG 39, three in DRG 36, and nine in DRG 42; therefore, it was entered in the 51-74 percent column for DRG 39. Codes which were not predominantly in a single DRG were not assigned to any DRG but are listed as "Possibles" for each DRG in which it occurred.

Through this process, we also determined that CPT procedure 33999 was being used for the heart-lung machine in our setting. When we decided to exclude this procedure code, an additional 1090 discharges in MDC 5 are considered as single procedure cases and have been analyzed as such, raising the percent of single procedure cases to 59.9 percent for MDC 5 and 73.9 percent overall.

Next, we went through all the CPT code combinations for each DRG grouping to determine what percent of discharges had only codes which were assigned to that DRG grouping ("cases have only these codes") and to determine what percent of discharges had any code assigned to that group with possible other codes ("cases with any of these codes"). Using this scheme, the range of cases meeting the criteria varied from a good identification of codes in DRG 39 (with over 99% of the cases having a specified code), to poor identification in DRGs 76 and 77 (with only 30% of the cases having a specified code). Table 4 provides a summary by MDC of the percent of discharges that would be correctly assigned to collapsed DRGs based strictly on the previously described scheme. Although the majority of cases would be correctly assigned, somewhere between 10 and 30 percent of surgeries could be erroneously assigned with this scheme.

Regeneration of Tables after Alterations in "Non-OR" Procedure List

After the intensive review of cases, particularly those with one procedure, it was decided to review the list of "non-OR" procedures and be less conservative in identifying a procedure as such. Appendix C lists all the procedures which were excluded after this later effort. Additionally, it was thought that a way to attempt to include procedure hierarchies into our assignment scheme would be to use the distribution of single procedure occurrences within an MDC instead of looking at all occurrences of that procedure. The computer output which has been forwarded to the Project Officer has included the following regenerations:

- DRG Distribution and Percent by CPT Code within MDC for Single Procedure Cases
- CPT Combinations by DRG Grouping
- DRG Distributions by Any Occurrence of this CPT Code

After removing procedures from this second list of non-operating room procedures from the data set, an additional 174 cases were identified with only "non-OR" procedures (1118 total, 3.9%). The numbers in parentheses on Table 2 display the revised discharges by MDC. Most of the discharges newly classified as only having non-OR procedures had removal of nasal polyps (30115-30118), percutaneous catheter insertion into renal pelvis (50392-50398), and various cystourethroscopies (52000-52110).

Finally, to determine an idea of the results of substituting CPT-4 codes for ICD-9 procedure codes in DRG assignments, the DRGs were reassigned for selected MDCs after substituting the specified CPT-4 codes from Attachment B (revised for new non-OR list) into the grouper. For example, the discharges for MDC 2 were reassigned. Any discharge with CPT-4 codes 67103, 67107, 67108, 67112, 67143 or 67223 was assigned to DRG 36. Next, any discharge with CPT-4 codes 61512, 65091, 65093, 65105, 65110, 67412, or 67599 was assigned to DRG 37. Next, any discharge with 65260, 65730, 65740, 65750, 65850, 66150, 66155, 66160, 66170, 66850, 66999, or 67035 was assigned to DRG 42, etc. The hierarchy of DRG assignments for the current grouper program was maintained.

Tables 5-8 display the results of this reclassification for MDCs 2, 6, 9 and 13, respectively. MDC 2 was expected to show the best results when reclassified; MDC 6 was expected to demonstrate some of the poorest results. The other two MDCs were expected to be intermediate. The variability of misclassified cases is very large across DRGs. It was surprising that MDC 13 had so many cases reclassified into other DRGs. However, when considering the assignment order that the grouper program uses, the procedures which were used to develop the CPT-DRG classification are not always the procedure which we used for DRG assignment.

Surgeon Review of Potential CPT-DRG Assignments

We had hoped to be able to present our tentative assignments of CPT-4 codes to DRGs to surgeon specialty groups to elicit their comments on the assignments and to obtain suggestions of possible DRGs for CPT codes which we did not encounter. However, due to a lack of experience with the use of the pertinent coding schemes, we were not very successful in these efforts.

Discussions were held with several surgical groups, principally urologic surgery and GI/general surgery. They reviewed the proposed assignments and identified various codes which appeared to not belong to that group of surgeries. They expressed that they did not have a sufficient understanding of what surgeries should be grouped within a specific DRG and did not feel qualified to make new assignments. Further, they expressed opinions concerning the inappropriate lumping of surgical procedures in the ICD-9 DRG scheme. For example, the GI surgeons questioned the inclusion of a temporary gastrostomy (43.1) with other major stomach, esophagus, and duodenal procedures in DRG 154-156. Certain surgeons stated that they could probably develop a grouping of procedures based on surgical time, complexity, or difficulty, but could not understand the apparent arbitrary assignment of some DRGs.

CONCLUSIONS

In summary, it appears feasible to develop a DRG grouper program for surgical patients using CPT-4 codes in lieu of ICD-9 procedure codes. To assess this feasibility we developed a CPT-4 - DRG assignment scheme. This scheme associates a CPT-4 code with a specific DRG based on the observed most frequent occurrence of that CPT-4 code in DRGs within an MDC. Using this scheme on the billing data, the vast majority of cases (68 to 99 percent) were assigned to the original DRG. However, there are certain DRGs and CPT-4 codes which appear to have more ambiguity. Although nearly 70% of Medicare surgeries in our experience were associated with only one CPT-4 procedure, less than 30% of cardio-vascular surgery cases (MDC-5) had only one surgical code on their bills. Those areas, like cardiovascular surgery, where multiple procedures are performed were more likely to be assigned incorrectly in our scheme.

More time and attention need to be given to the following areas before a reliable grouper could be developed:

- Which CPT-4 codes are "non-OR" procedures?
- Should the CPT-4 grouper use the procedure hierarchy of the ICD-9 grouper?
- Should combinations of codes be used to define DRGs rather than just a single code?
- Which of the many discharges in DRG 468 could be appropriately assigned to other DRGs?
- As CPT-4 codes are designed to be used for billing (and presumably more related to physician resource use), for a physician reimbursement system, should new DRGs be developed using CPT-4 procedure codes rather than just trying to translate from CPT-4 codes to existing DRGs?
- What should be done about the annual updating of CPT-4?

Broad-based surgeon input is necessary to make the development of a CPT-4 grouper possible. Future efforts in this area should stress educating the surgeon on the ICD-9 and CPT-4 procedure coding systems, as well as the development and current use of DRGs.

Table 1

Distribution of medicare surgical discharges by DRG based on PSRO
Abstracts after reabstraction and reassignment and by year:
Mayo-affiliated hospitals, 1981-1983

---- Number of Discharges ----

<u>DRG</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Total</u>
1	127	141	154	422
2	10	14	16	40
3	0	0	0	0
4	10	11	12	33
5	125	143	133	401
6	126	124	92	342
7	29	32	33	94
8	19	26	26	71
36	76	53	68	197
37	11	17	13	41
38	19	16	9	44
39	345	412	547	1304
40	57	102	94	253
41	0	0	0	0
42	108	99	90	297
49	52	60	52	164
50	22	40	25	87
51	2	1	3	6
52	2	1	0	3
53	40	39	52	131
54	0	0	0	0
55	69	72	90	231
56	17	22	26	65
57	2	2	3	7
58	0	1	0	1
59	1	0	1	2
60	0	0	0	0
61	2	2	1	5
62	0	0	0	0
63	20	22	28	70

----Number of Discharges----

<u>DRG</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Total</u>
75	258	274	270	802
76	31	45	38	114
77	10	21	14	45
103	0	0	0	0
104	34	38	38	110
105	165	147	137	449
106	88	84	121	293
107	124	144	212	480
108	22	31	52	105
109	17	21	18	56
110	258	297	274	829
111	56	54	53	163
112	81	87	93	261
113	29	35	41	105
114	4	6	3	13
115	9	6	8	23
116	133	147	152	432
117	23	43	22	88
118	13	8	14	35
119	35	30	34	99
120	34	26	43	103
146	89	100	107	296
147	15	21	18	54
148	288	270	314	872
149	39	41	29	109
150	24	15	16	55
151	7	3	2	12
152	33	48	72	153
153	11	19	21	51
154	135	134	205	474
155	40	34	29	103
156	0	0	0	0
157	143	157	205	505
158	73	85	80	238
159	36	42	51	129

----Number of Discharges----

<u>DRG</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Total</u>
160	20	16	19	55
161	154	158	158	470
162	63	61	60	184
163	2	2	1	5
164	4	2	2	8
165	2	1	2	5
166	2	4	6	12
167	1	2	4	7
168	45	65	65	175
169	18	20	24	62
170	39	41	55	135
171	5	8	10	23
191	22	28	31	81
192	22	17	18	57
193	44	51	77	172
194	10	9	5	24
195	52	48	41	141
196	7	5	2	14
197	101	99	99	299
198	50	52	38	140
199	34	32	29	95
200	8	10	14	32
201	35	51	36	122
209	865	877	951	2693
210	111	84	100	295
211	17	13	23	53
212	0	1	0	1
213	18	33	23	74
214	68	82	111	261
215	57	51	57	165
216	27	22	19	68
217	35	36	38	109
218	54	39	45	138
219	56	37	39	132
220	0	0	0	0

----Number of Discharges----

<u>DRG</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Total</u>
221	34	26	31	91
222	24	22	32	78
223	66	38	70	174
224	45	45	41	131
225	66	61	83	210
226	32	25	33	90
227	29	20	22	71
228	4	1	0	5
229	91	78	86	255
230	15	14	12	41
231	60	61	56	177
232	13	12	2	27
233	60	58	73	191
234	18	33	25	76
257	116	163	154	433
258	37	29	28	94
259	14	11	15	40
260	4	3	3	10
261	19	14	22	55
262	81	103	89	273
263	29	31	35	95
264	9	14	5	28
265	20	9	18	47
266	42	49	34	125
267	1	2	4	7
268	15	8	13	36
269	34	38	46	118
270	19	13	25	57
285	18	32	36	86
286	18	21	27	66
287	8	6	14	28
288	0	0	0	0
289	87	75	89	251
290	57	46	56	159
291	1	0	0	1

----Number of Discharges----

<u>DRG</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Total</u>
292	11	16	19	46
293	3	5	2	10
302	38	40	24	102
303	109	132	124	365
304	92	84	102	278
305	59	54	45	158
306	30	21	23	74
307	11	1	10	22
308	26	44	45	115
309	12	18	8	38
310	279	266	252	797
311	98	91	72	261
312	11	15	14	40
313	5	6	7	18
314	0	0	0	0
315	37	35	36	108
334	20	36	34	90
335	51	35	52	138
336	377	317	360	1054
337	99	90	97	286
338	119	134	133	386
339	27	36	41	104
340	0	0	0	0
341	75	70	66	211
342	0	1	11	12
343	0	0	0	0
344	28	27	41	96
345	5	4	10	19
353	27	18	29	74
354	111	117	126	354
355	53	53	50	156
356	66	56	64	186
357	12	15	15	42
358	11	13	10	34
359	1	0	0	1

----Number of Discharges----

<u>DRG</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Total</u>
360	23	22	33	78
361	0	0	0	0
362	2	0	0	2
363	1	4	1	6
364	42	40	42	124
365	6	6	10	22
370	1	0	0	1
371	0	0	0	0
374	0	0	0	0
375	0	0	0	0
377	0	0	0	0
392	11	12	14	37
393	0	0	0	0
394	32	16	27	75
400	38	51	73	162
401	38	36	44	118
402	13	19	16	48
406	27	32	38	97
407	28	36	23	87
408	42	39	23	104
415	54	46	71	171
424	13	8	13	34
439	18	15	14	47
440	32	20	18	70
441	17	6	3	26
442	148	190	189	533
443	74	50	66	184
457	0	0	0	0
458	1	5	4	10
459	0	1	0	1
461	42	39	21	102
468	558	535	706	1799

TOTAL: 10,046

10,261

11,206

31,513

Table 2

Distribution of Medicare surgical patients and cases with "OR"
procedures by MDC: Mayo-affiliated hospitals, 1981-1983

<u>MDC</u>	<u>Number of Surgical Cases Abstracted</u>	<u>Number of Cases with "OR" Procedures</u>	<u>Percent Represented</u>
1	1403	1346 (1345)	95.9 (95.9)
2	2136	2066 (2066)	96.7 (96.7)
3	772	740 (690)	95.9 (89.4)
4	961	890 (886)	92.6 (92.2)
5	3644	3408 (3397)	93.5 (93.2)
6	4192	3636 (3624)	86.7 (86.5)
7	1177	1009 (1004)	85.7 (85.3)
8	5606	5367 (5348)	95.7 (95.4)
9	1418	1355 (1354)	95.6 (95.5)
10	647	615 (615)	95.1 (95.1)
11	2376	2124 (2046)	89.4 (86.1)
12	2396	2309 (2309)	96.4 (96.4)
13	1079	1045 (1043)	96.8 (96.7)
16	112	102 (107)	91.1 (95.5)
17	616	583 (584)	94.6 (94.8)
18	171	151 (142)	88.3 (83.0)
19	34	31 (31)	91.2 (91.2)
21	860	776 (789)	90.2 (91.7)
22	11	9 (9)	81.8 (81.8)
23	102	92 (92)	90.2 (90.2)
TOTAL:	29,714	27,654 (27,480)	93.1 (92.5)

NOTE: Numbers in parentheses reflect results of revisions to list of CPT-4 procedures which are considered to be in the operating room (OR).

Table 3Distribution of surgical cases by MDC with single CPT-4 Procedure:Mayo-affiliated hospitals, 1981-1983

MDC	Total Discharges in Data Base	Number with Single CPT Code	Percent
1	1346	789	58.6
2	2066	1907	92.3
3	740	542	73.2
4	890	652	73.3
5	3408	951	27.9
6	3636	2674	73.5
7	1009	783	77.6
8	5367	4397	81.9
9	1355	1076	79.4
10	615	466	75.8
11	2124	1479	69.6
12	2309	1501	65.0
13	1045	884	84.6
16	102	83	81.4
17	583	452	77.5
18	151	89	58.9
19	31	24	77.4
21	776	503	64.8
22	9	6	66.7
23	92	75	81.5
Total:	27,654	19,333	69.9

Table 4

Assignment of surgical DRGs based on predominant CPT code frequencies
summarized by MDC: Mayo-affiliated hospitals, 1981-1983

MDC	N	% of Case with Only Specified Codes	% of Case with Specified Code and Possibly Other Codes
1	1346	59.5	95.3
2	2066	93.2	96.2
3	740	73.4	84.5
4	890	76.3	87.3
5	3408	61.0	87.0
6	3636	52.5	82.1
7	1009	65.6	82.9
8	5367	74.2	87.1
9	1355	67.4	82.7
10	615	72.9	91.2
11	2124	70.2	89.7
12	2309	67.6	92.0
13	1045	74.8	88.5
16	102	72.6	96.1
17	583	74.6	89.2
18	151	64.9	90.7
19	31	80.6	90.3
21	776	68.4	85.3
22	9	66.7	100
23	92	84.8	91.3
Total:	27,654	68.7	87.8

NOTE: This table attempts to reflect the extent of consistency between code systems. For example, 59.5% of cases in MDC 1 have only those CPT-4 procedure codes for the appropriate DRGs expressed in Appendix B. Meanwhile, over 95% of the MDC 1 cases have any code which is on the appropriate DRG list.

Table 5

Reclassification of surgical DRGs in MDC 2 based on substitution
of CPT-4 procedure codes for ICD-9 procedure codes:
Mayo-affiliated hospitals, 1981-1983

Reclassified DRG	<u>Original DRG</u>						Total
	36	37	38	39	40-41	42	
36	167	--	--	--	--	2	169
37	--	36	--	--	--	--	36
38	5	--	41	--	1	1	48
39	4	1	--	1255	--	29	1289
40-41	--	1	--	--	234	--	235
42	17	--	1	4	4	250	276
Uncertain	2	2	--	4	3	2	13
Total:	195	40	42	1263	242	284	2066
Total Misclassified:	28	4	1	8	8	34	83
(Percent)	14.4	10.0	2.4	0.6	3.3	12.0	4.0

Table 6

Reclassification of surgical DRGs in MDC 6 based on substitution of
CPT-4 procedure codes for ICD-9 procedure codes:
Mayo-affiliated hospitals, 1981-1983

Reclassified DRGs	Originals DRGs											Total
	146- 147	148- 149	150- 151	152- 153	154- 156	157- 158	159- 160	161- 163	164- 167	168- 169	170- 171	
146-147	328	171	-	10	1	-	-	-	-	-	-	510
148-149	4	688	1	1	12	1	1	-	-	-	2	710
150-151	-	6	43	3	-	1	2	1	-	-	-	56
152-153	-	13	2	47	-	3	-	19	-	-	-	84
154-156	2	7	1	1	401	2	-	2	-	1	1	418
157-158	6	4	-	60	2	411	-	3	-	-	3	489
159-160	-	2	1	1	2	-	156	2	-	-	-	164
161-163	-	1	-	1	1	-	2	614	1	-	-	620
164-167	-	2	1	-	-	-	-	-	27	-	-	30
168-169	-	-	-	-	-	1	-	-	-	198	8	207
170-171	-	-	-	-	3	1	-	-	-	-	38	42
Uncertain	4	41	16	19	55	34	19	1	2	18	87	296
Total:	344	935	65	143	474	454	180	642	30	217	139	3,624
Total Misclassified:	16	247	22	96	76	43	24	28	3	19	101	675
(Percent)	4.7	26.4	33.8	67.1	16.0	9.5	13.0	4.4	10.0	8.7	72.7	18.6

Table 7

Reclassification of surgical DRGs in MDC 9 based on substitution of
CPT-4 procedure codes for ICD-9 procedure codes

Reclassified DRGs	<u>Originals DRGs</u>							Total
	257-258	259-260	261-262	263-266	267	268	269-270	
257-258	470	-	7	1	-	-	-	478
259-260	1	8	-	-	-	-	-	9
261-262	47	38	314	-	-	-	-	399
263-266	-	-	-	257	1	19	40	317
267	-	-	-	-	2	-	-	2
268	-	-	-	-	-	9	-	9
269-270	-	2	-	7	-	1	84	94
Uncertain	-	-	-	17	3	4	22	36
Total:	518	48	321	282	6	33	146	1354
Total Misclassified:	48	10	7	25	4	24	62	180
(Percent)	9.3	20.8	2.2	8.9	66.7	72.7	42.4	13.3

Table 8

Reclassification of surgical DRGs in MDC 13 based on substitution of
CPT-4 procedure Ccodes for ICD-9 procedure codes

Reclassified DRGs	<u>Originals DRGs</u>								Total
	353	354-355	356	357-359	360	362	363-364	365	
353	51	210	2	-	-	-	-	-	263
354-355	8	276	1	3	-	-	1	-	289
356	-	-	172	2	4	-	-	1	179
357-359	-	11	-	47	2	-	-	-	60
360	11	-	6	2	50	-	2	3	74
362	-	-	-	1	-	2	-	-	3
363-364	1	-	-	13	14	-	121	-	149
365	-	-	-	3	-	-	1	17	21
Uncertain	1	-	1	2	1	-	-	-	5
Total:	72	497	182	73	71	2	125	21	1054
Total Misclassified:	21	221	10	26	21	-	4	4	307
(Percent)	29.2	44.5	5.5	35.6	30.0	0.0	3.2	19.0	29.1

APPENDIX A

CPT-4 Non-OR Procedures

CPT-4 NON-OR PROCEDURES

10000	16000	21310
10001	16010	21315
10002	17303	21320
10003	17304	21337
10020	17305	21400
10060	17306	21401
10080	17307	21440
10100	17310	21480
	17360	21501
10140	17380	21800
10141	19100	21820
10160	19396	22010
10180	20000	22012
11100	20010	23030
11101	20500	23350
11900	20501	23500
11901	20550	23505
11920	20600	23520
11921	20605	23525
11922	20610	23540
11950	20615	23545
11951	20665	23570
11952	20690	23575
11954	20691	23600
11960	20950	23605
11970	21100	23620
12001-12021	21110	23625
12031-12057	21116	

45360-45383	54055
45520	54200-54250
46210	54500
46211	54800
46221	55100
46230	55200
46500	55250
46510	55300
46600-46614	55700
47000	57020
48102	57150
49400	57160
49401	57170
49430	57600
49440	57620
50200	57800
50390	58100-58103
50551-50559	58300-58350
50570-50578	59000-59050
51000	59300
51600-51710	59305
51725-51797	59810
55260	59850
52265	59851
52317	60100
52320-52338	61000-61070
53600-53899	
54050	

36000	42300-42320
36001	42400
36100	42405
36101	42550
36120	42800
36140	42802
36160	42804
36200	42806
36210	42809
36220	43200
36240	43202
36400-36660	43204
38090	43219
38200	43220
38790-38999	43226
40490	43234
40808	43235
40830	43239
40831	43245
41100	43246
41105	43260
41108	43262-43272
41115	43450-43499
41116	44360-44393
41250	45100
41251	45105
41800-41828	45300-45336

27552	28435	31612
27560	28450	31615
27562	28455	31620
27570	28470	31621
27648	28475	31625
27750	28490	31626
27752	28495	31627
27760	28510	31630
27762	28515	31635
27780	28540	31645
27781	28545	31646
27786	28546	31656
27788	28570	31700
27800	28575	31708
27802	28600	31710
27808	28605	31715
27810	28606	31717
27816	28635	31719
27818	28660	31720
27830	28665	31725
27831	29000-29799	32000
27840	30000-30111	32400
27842	30800-30906	32405
27860	30300	32960
28400	30310	32999
28405	31000	33010
28406	31001	33011
28430	31500	33212
		33972

23650	25650	26990
23655	25660	27040
23665	25675	27093
23675	25680	27095
23700	25690	27190
23930	26010	27191
24220	26011	27195
24500	26020	27196
24505	26025	27200
24530	26030	27210
24535	26032	27211
24600	26600	27220
24605	26605	27222
24640	26641	27238
25246	26645	27240
25500	26670	27246
25505	26675	27250
25530	26700	27252
25535	26705	27275
25560	26720	27370
25565	26725	27500
25600	26740	27502
25605	26742	27508
25622	26743	27510
25624	26750	27520
25630	26755	27530
25635	26770	27532
	26775	27550

62268-62294
64400-64550
65205-65222
65272
65273
67104
67106
67212-67216
67222-67226
67500
67505
67700
67938
69000-69110
69140
69145
69200-69210
69400-69425

APPENDIX B

Predominant CPT-4 Codes within DRG Terminal Groups

CPT-4 Codes which Appeared Singly in Predominantly This DRG for MDC 1

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
25028	1	21499	1	61458	3
61150	1	61304	10	61518	7
61154	49	61305	1		
61155	5	61520	6		
61210	4	61532	7		
61251	1	61711	11		
61310	22	62192	2		
61311	3				
61510	45				
61512	30				
61516	1				
61519	3				
61538	6				
61539	1				
61548	2				
61700	16				
61702	5				
61705	1				
61720	5				
61750	6				
62005	1				
62223	44				
62230	7				
62258	4				

79% of cases have only these codes.

97% of cases with any of these codes.

Possibles

61345
61450
61458
61460
61470
62010
63015
63016
63240
69625
69999

DRG 4 --- N = 32

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 1

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
62296	1	63240	2		
62303	1				
63017	1				
63190	1				
63215	1				
63241	6				
63250	1				

44% of cases have only these codes.

66% of cases with any of these codes.

Possibles

22327
22680
22720
22899
62297
62301
63001
63005
63015
63016
63242
63740

DRG 5 --- N = 389

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 1

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
35231	1	35301	44		
35507	1				
35606	1				

13% of cases have only these codes.

99.7% of cases with any of these codes.

Possibles

61711

DRG 6 --- N = 328

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 1

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
64719	1	64721	279		

85% of cases have only these codes.

98.7% of cases with any of these codes.

Possibles

20999

64718

64795

DRG 7-8 --- N = 159

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 1

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
15745	1	17999	2	28899	1
15824	1	25310	1		
15828	1	37609	18		
15930	1	61345	3		
21615	1	61450	3		
27004	1	61460	7		
27394	1	64718	22		
28080	7	64776	11		
37615	1	64784	3		
61790	10	64795	6		
64640	1				
64704	1				
64708	1				
64782	1				
64866	1				

70% of cases have only these codes.

78.6% of cases with any of these codes.

Possibles

20240
20999
21499
25999
26055
26989
27130
35371
61304
61305
64680
64712
64721
64830
64865
64892
69502
69970
69979

DRG 36 --- N = 194

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 2

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
67103	1	67107	126		
67108	2				
67112	6				
67143	1				

84% of cases have only these codes.

85.6% of cases with any of these codes.

Possibles

66020
66720
66920
66940
67035
67299

DRG 37 --- N = 40

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 2

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
61512	1				
65091	1				
65093	3				
65105	10				
65110	1				
67412	2				
67599	2				

75% of cases have only these codes.

92.5% of cases with any of these codes.

Possibles

11643
13300
66980
66999
67400
67599
67961
68200
69999

DRG 42 --- N = 284

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 2

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
65260	1	66999	6	67035	20
65730	1				
65740	17				
65745	5				
65750	6				
65850	1				
66150	3				
66155	2				
66160	2				
66170	114				
66850	1				

83% of cases have only these codes.

88% of cases with any of these codes.

Possibles

65920
66250
66625
66820
66920

66940
66980
67107
67299

DRG 39 --- N = 1263

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 2

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
15834	1	66820	16	✓66920	21
65875	1	66940	130		
66800	13				
66840	1				
66945	3				
66980	1051				
66985	3				
68825	1				

98% of cases have only these codes.

99.5% of cases with any of these codes.

Possibles

11641
65920
66250
66999
67218
67299
67311
67400
67901
67999

DRG 38 --- N = 43

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 2

<u>Only DRG</u> <u>CPT-4 # of Cases</u>	<u>75-99%</u> <u>CPT-4 # of Cases</u>	<u>51-74%</u> <u>CPT-4 # of Cases</u>
66761 1	66625 28	66720 12

95% of cases have only these codes.

100% of cases with any of these codes.

Possibles

66999
67999

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 2

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11442	1	11641	2	67311	4
11640	2	11643	2	67901	2
11642	1	17999	1		
15819	2	67312	16		
15820	1	67999	48		
15821	1				
15822	4				
15823	11				
37609	4				
51060	1				
65400	1				
65420	1				
65720	1				
65900	1				
67313	2				
67332	2				
67810	2				
67840	3				
67904	6				
67908	5				
67911	2				
67914	2				
67916	16				
67917	2				
67921	2				
67923	7				
67924	2				
67950	1				
67961	7				
67966	4				
68115	1				
68745	4				
68720	27				
68520	3				
68362	4				
68335	1				
68320	1				

90% of cases have only these codes.

96.7% of cases with any of these codes.

Possibles

15824	67218
64742	68100
66720	68399
66999	69999

DRG 49 --- N = 156

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
21045	1	31360	6	21899	1
31365	18	38720	6	31300	10
31368	20	41155	2	41899	2
31370	2			42120	1
31375	2			42426	1
31380	3				
31382	1				
31390	3				
31395	2				
31400	2				
41135	21				

68% of cases have only these codes.

89.1% of cases with any of these codes.

Possibles

15630
17999
31560
31599
31600
35201
38721
41120
41150
41599
42420
42440
42895

DRG 50 --- N = 85

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
42425	1	42415	45		
		42420	5		
		42440	20		

84% of cases have only these codes.

94.1% of cases with any of these codes.

Possibles

42410
69999

DRG 51 --- N = 6

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u> <u>CPT-4 # of Cases</u>	<u>75-99%</u> <u>CPT-4 # of Cases</u>	<u>51-74%</u> <u>CPT-4 # of Cases</u>
		42410 4

66.7% of cases have only these codes.

66.7% of cases with any of these codes.

Possibles

42699
42415

DRG 52 --- N = 3

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
40740	1				
42225	1				
42950	1				

• 100% of cases have only these codes.

DRG 53-54 --- N = 125

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
30115	24	30118	4	69440	
30116	15	69604	4		
31020	4				
31021	1				
31030	6				
31050	2				
31075	1				
31080	1				
31084	2				
31090	4				
31200	1				
69505	7				
69511	2				
69635	1				
69641	8				
69642	2				
69643	4				
69644	1				
69645	1				
69646	1				
69799	1				

79% of cases have only these codes.

87.2% of cases with any of these codes.

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
30150	2	31540	64	30420	3
31570	1	31541	5	30620	1
69399	1			31525	4
69620	1				
69631	13				
69632	5				
69636	1				
69660	37				
69661	13				
69801	18				
69905	4				
69910	2				

78% of cases have only these codes.

85.2% of cases with any of these codes.

Possibles

11440
11643
17999
20926
21034
30118
30160
30400
30520
30999
31225
31300
31360
31535
31560
61500
65112
69400
69604
69660
69999

DRG 56 --- N = 65

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
21210	2	30520	46		
30410	2				

77% of cases have only these codes.

86.2% of cases with any of these codes.

DRG 57-58 --- N = 6

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u> <u>CPT-4 # of Cases</u>	<u>75-99%</u> <u>CPT-4 # of Cases</u>	<u>51-74%</u> <u>CPT-4 # of Cases</u>
		42826 1

17% of cases have only these codes.

33.3% of cases with any of these codes.

Possibles

31525
42100
42999
69999

DRG 59-60 --- N = 2

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

None meet criteria.

Possibles

42826

42999

DRG 61-62 --- N = 2

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

None meet criteria.

Possibles

42999

69436

69999

DRG 63 --- N = 67

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 3

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
21556	1	42808	2	31600	4
31090	1			41120	6
38700	1			41599	5
41112	5				
41113	4				
42815	1				
42880	1				
43030	2				
54405	1				
69535	1				
69915	1				

52% of cases have only these codes.

62.7% of cases with any of these codes.

Possibles

11420
11640
11643
14041
15120
17999
20926
21499
21899
30915
30920
31225
31230
31299
31540
31541
31755
38720
41155
42100
42120
42426
42999
44300
49560
52100
52601
69999

DRG 75 --- N = 744

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 4

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
19271	1	31628	7	21899	1
31775	1	31640	30	39010	4
32095	15	31659	3	39400	4
32124	12	32100	45	49000	1
32141	1	32480	193		
32150	17	32500	107		
32220	4				
32225	9				
32310	1				
32315	1				
32320	1				
32440	42				
32485	4				
33100	1				
39220	4				
60520	1				
64999	1				

86% of cases have only these codes.

98.4% of cases with any of these codes.

Possibles

11406
17999
20999
31600
31781
32140
32445
32450
32906

38500
38520
39020
39200
41120
46999
52202
61548
69999

DRG 76-77 --- N = 146

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 4

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11603	1	20240	2	38520	3
11643	2	31781	1		
20220	2	38510	17		
20225	1				
31525	2				
31540	1				
31613	1				
31780	1				
31899	1				
39499	1				
43640	1				

27% of cases have only these codes.

30.8% of cases with any of these codes.

Possibles

11401	33210
17999	35081
19260	37620
20245	37799
21556	38500
21899	38720
27454	39010
31525	39020
31600	39400
31614	42725
31628	43830
31640	49000
32035	49505
32100	50240
32480	52100
32500	69999
32700	
33205	

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
33430	79	33405	140	33425	11
33465	3	33422	3		
33480	1	33481	9		
33483	27	33865	8		
33490	1				

53.5% of cases have only these codes.

94.7% of cases with any of these codes.

Possibles

21899
33025
33205
33210
33315
33460
33482
33485

33492
33511
33512

33513
33560
33970
35651
35820
36810
52061
52100
64819
65101

DRG 106-107 --- N = 748

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
33350	1	33511	93		
33503	1	33512	348		
33516	8	33513	88		
33520	1	33514	36		
33528	9	33560	10		

77.3% of cases have only these codes.

96.1% of cases with any of these codes.

Possibles

17999
31899
33205
33210
33425
33510
33542
33870
33970
35820
37799
69999

DRG 108 --- N = 98

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
33120	4			33315	1
33545	4			33460	2
33641	5			33542	2
33684	1			33643	2

19.4% of cases have only these codes.

24.5% of cases with any of these codes.

Possibles

17999
31600
33205
33210
33415
33425

33645
33865
33970
35820
36299
37799
51575
52601
54521
69999

DRG 109 --- N = 52

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
33030	5	33100	7		
33050	1				
33820	1				
33824	1				

28.8% of cases have only these codes.

42.3% of cases with any of these codes.

Possibles

21615
31600
31628
32160
33025
33210

33415
33643
33875
33970

35001
35021
35081
35091
35102
35141
35612
35641
35646
35800
35820
37799
44300
44320
49000
49080
52100
64082
64804
64818
69999

DRG 110-111 --- N = 948

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
26130	1	33860	6	35665	2
35281	1	33875	22		
35331	1	35081	140		
35506	1	35091	3		
35516	1	35102	139		
35531	1	35556	23		
35541	1	35566	5		
35558	1	35641	57		
35571	1	35646	56		
35606	2	35651	4		
35621	5	35656	45		
35631	1	35661	11		
35666	4				

58.4% of cases have only these codes.

95.4% of cases with any of these codes.

Possibles

11401	35381
15100	35616
20999	35663
21499	35820
27599	35840
28825	35910
31600	37799
32160	41899
33335	47100
33405	47480
33542	49000
33870	50220
34201	52105
35021	61705
35121	61711
35141	64818
35151	67999
35256	69999
35351	

DRG 112 --- N = 203

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
35131	2	34101	5	35141	12
35161	4	34201	24	35151	4
35251	1	35301	1	35256	1
35361	1	35371	9	36830	2
37460	1	35381	2		
61700	4	37609	9		

39.9% of cases have only these codes.

60.1% of cases with any of these codes.

Possibles

15100	35646
15101	
20220	35656
20999	35661
27590	
27602	35665
27880	35741
27882	35761
27899	
	35860
28805	37620
28810	37799
28820	43251
28899	43550
31570	47600
33210	49000
35001	49560
35081	52100
35102	52601
35121	55040
35201	61310
35286	61705
35556	64721
35616	64818
35641	64819
	69999

DRG 113 --- N = 98

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27888	1	27880	25	27295	1
		27882	1	27590	13

44.8% of cases have only these codes.

96.9% of cases with any of these codes.

Possibles

27086
27590
27592
27599
28810
28899

DRG 114 --- N = 10

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

None meet criteria.

Possibles

20999
25900
26989
27596
27880
27882
27899
28820
28825
28899
64813

DRG 115-116 --- N = 432

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>	<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>
	33200 3	
	33205 135	
	33210 1	

87.7% of cases have only these codes.

99.1% of cases with any of these codes.

Possibles

33216

DRG 117 --- N = 69

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

None meet criteria.

Possibles

33205
33210
33212
33216
33218
33219

DRG 118 --- N = 34

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u> <u>CPT-4 # of Cases</u>	<u>75-99%</u> <u>CPT-4 # of Cases</u>	<u>51-74%</u> <u>CPT-4 # of Cases</u>
	33212 14	

70.1% of cases have only these codes.

82.4% of cases with any of these codes.

Possibles

33205

DRG 119 --- N = 94

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
37720	31		
37721	40		
37760	1		
37785	1		

77.7% of cases have only these codes.

80.9% of cases with any of these codes.

Possibles

15100
27599
28899
34421
35102
35820
37799
69999

DRG 120 --- N = 95

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 5

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27603	1	15100	29		
43638	1				

32.6% of cases have only these codes.

50.5% of cases with any of these codes.

Possibles

11643
17999
20926
20999
22899
27880
27899
28899
30999
31600
36810
36821
36830
37799
41899
44160
49000-
49000
52100
64304
64818
64819
69999
75715

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
43520	1	43130	6	✓ 43258	3
43620	15	43610	7	43700	1
43625	2	43840	9		
43630	38	64760	8		
43635	22				
43640	12				
43820	10				
43825	3				
43850	1				
43860	4				
43865	9				
43880	1				
43999	3				
44010	1				
64755	3				
39500	4				
39520	10				
39530	4				
39531	12				
39599	1				
43120	7				
43227	1				
43251	1				
43310	1				
43320	54				
43324	9				
43330	2				
43331	5				
43340	1				
43352	1				

63.2% of cases have only these codes.

82.7% of cases with any of these codes.

Possibles

10061	45110
17999	46999
21899	47600
31628	47721
32120	48150
35120	49000
37609	49010
37620	49020
37799	49080
43215	49201
43638	49505
43700	49560
44120	52280
44140	58150
44143	64640
44160	69999
44323	
44799	

DRG 146-147 --- N = 344

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
45112	2	44150	1	44143	27
45541	1	44155	16	44145	19
		45110	56	44146	2

36.3% of cases have only these codes.

96.2% of cases with any of these codes.

Possibles

17999
44140
44141
44340
44661
45505
45999
46999
49201

52105
57545
69999

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
44050	2	44120	58	44799	5
44060	1	44140	139		
44130	11	44144	5		
44141	2	44150	17		
44300	1	44160	202		
44640	1	44320	14		
44661	1	44800	1		
58260	1				

38.6% of cases have only these codes.

80.1% of cases with any of these codes.

Possibles

15831	45385
17999	45505
20610	45999
20999	46750
31560	46999
31600	47600
35281	47611
35840	49000
36821	49201
37799	49505
38100	49530
40740	49560
43258	49581
43700	49900
43830	49999
43840	52100
44000	52105
44005	52276
44020	52601
44110	57320
44143	57410
44145	58150
44146	58720
44155	58822
44305	58925
44314	58999
	60245
44345	61510
44620	64760
44625	69999
44660	
44960	
45170	

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
44025	1	44100	5	44625	18
44400	1	44620	17		

28.9% of cases have only these codes.

45.6% of cases with any of these codes.

Possibles

17340
17999
22999
28292
43700
44000
44005
44020
44110
44111
44144
44314
44345
44799
44950
45170
45175
45385
45999
46999
47420
47600
49000
49581
52100
52601
58120
60500
66980
69999

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
43030	1	44111	3	45385	161
44340	1	45170	48	45505	6
45160	1	45180	15	46040	2
45181	2	46200	17		
46000	1	46270	21		
46045	2				
46080	5				
46250	15				
46255	20				
46257	2				
46275	2				
46280	1				
46700	4				
51597	1				

72.9% of cases have only these codes.

78.4% of cases with any of these codes.

Possibles

11643
17999
19120
27130
43610
44005

44110
44120
44312
44314
44345
44799
45175

45999

46999
47600
49000
49200
49999
52100
52105
52601
55040
58120
58999
69999

DRG 159-160 --- N = 180

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for-MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
15840	1	49560	84		
49565	13	49581	18		
49570	2				
49575	1				
49590	4				

69.4% of cases have only these codes.

86.7% of cases with any of these codes.

Possibles

17999
44005
44110
44800
47600
49000
49505
49510
49999
58999
69999

DRG 150-151 --- N = 65

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
		44000	5
		44005	33

60% of cases have only these codes.

67.7% of cases with any of these codes.

Possibles

44110
44314
44345
44625
44799
44950
49000
58999
60500
66800
69999

DRG 161-163 --- N = 638

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
49515	9	49505	336	49552	2
49525	21	49506	69		
49555	2	49510	5		
		49520	65		
		49530	13		
		49550	21		

60.5% of cases have only these codes.

99.8% of cases with any of these codes.

Possible

49000 (1 case only)

DRG 164-165-166-167 --- N = 30

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
		44950	12		
		44960	9		

73.3% of cases have only these codes.

86.7% of cases with any of these codes.

Possibles

44955
47600
49000
49525
58150

DRG 168-169 --- N = 223

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11441	1	21499	4	11643	1
15630	1	40799	6	41112	1
15785	1	41899	65		
19140	1				
21044	3				
21045	8				
21202	2				
21215	1				
21250	1				
38700	1				
38701	2				
40500	4				
40510	2				
40814	1				

72.2% of cases have only these codes.

90.6% of cases with any of these codes.

40816 1
40844 1
40899 1
41113 2
41120 3
41135 1
41155 4

41599 7
42100 3
42106 3
42120 4
42299 3
42410 1
42420 1
42440 2
42699 2
42950 2
42999 1

Possibles

11443 21899
11640 26610
11641 31535
11644 31570
13300 31600
15120 35301
17999 40845
20670 41150
20926 42415
21040 42895
21045 60200
21365 64774
21455 67999
21462 69999
21499
21555

DRG 170-171 --- N = 143

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 6

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
49300	1	38510	7	49301	1
56641	1	49010	4		
		49060	2		

11.2% of cases have only these codes.

16.8% of cases with any of these codes.

Possibles

17499	46999
20220	47399
20926	47420
21499	47600
22999	47999
31230	48150
31600	49000
33210	49020
34150	49060
35091	49080
35341	49180
35631	49200
37799	49201
38100	49999
38500	50020
40844	50120
40845	50900
43258	51841
43500	52100
43700	52105
43830	52202
44160	54521
44305	58120
44799	58720
45999	58980
	69999

DRG 191 --- N = 73

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 7

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
47010	1			47120	5
47125	1				
47130	2				
48140	3				
48145	1				
48150	17				
48155	3				
48180	1				

41.1% of cases have only these codes.

82.2% of cases with any of these codes.

Possibles

44130
44140
47130
47399
47425
47440
47460
47600
47620
47720
47721
47780
48020
48150
48151
49000
49505

DRG 192 --- N = 51

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 7

<u>Only DRG</u>	<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>
		47120 3
		48000 1
		48520 2

11.8% of cases have only these codes.

19.6% of cases with any of these codes.

Possibles

17999
22999
43830
43999
45385
47399
47425
47480
47600
47610
47780
47999
48540
48999
49000
49020
49201
49300
49999
50398
69999

DRG 193-194 --- N = 159

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 7

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
47740	1	47420	18	47425	8
47760	9	47630	14		
47765	1	47720	7		
47800	1	47721	17		
		47780	7		

54.1% of cases have only these codes.

69.2% of cases with any of these codes.

Possibles

17999
43820
44100
44120
44160
44305
47440
47460
47600
47610
47611
47999
48000
49000
49010
49080
49421
49565
49999
50398
64640
69999

DRG 195-196-197-198 --- N = 572

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 7

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
47400	1	47600	324		
		47610	110		
		47611	22		

79.7% of cases have only these codes.

98.5% of cases with any of these codes.

Possibles

44120
47420
47425
47765
47780
49505
69999

DRG 199-200 --- N = 103

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 7

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
38100	1	43820	13	49000	21
43630	1			49300	5
44143	1				
48100	1				
49301	3				

46.6% of cases have only these codes.

75.7% of cases with any of these codes.

Possibles

27244
37620
37799
43825
43840
43860
45385
47100
47600
47999
48999
49080
52235
58720
64640
69999

DRG 201 --- N = 51

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 7

<u>Only DRG</u>		<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
38510	1		
43227	32		
45999	1		

66.7% of cases have only these codes.

70.6% of cases with any of these codes.

Possibles

17999
35081
35621
35661
37620
37799
43820
43825
43999
44160
46999
48520
49000
49080
49300
49560
49999
52100
52280
52601
69999

DRG 209 --- N = 2603

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27127	2	27125	134		
27131	26	27126	20	27447	2
27438	1	27130	985		
27442	1	27135	209		
27443	1	27440	2		
27445	1	27444	866		
27487	13	27446	3		
27488	40	27700	10		
27702	3	27126	20		

90.4% of cases have only these codes.

99.5% of cases with any of these codes.

Possibles

25575
25610
25611
27054
27236
27299
27599

DRG 210-211-212 --- N = 328

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
23515	1	27091	6	27253	4
27232	1	27236	16		
27067	1	27244	147		
27122	2	27454	9		
27161	1				
27235	17				
27248	1				
27450	1				
27472	8				
27506	8				
27514	3				
27540	1				

71% of cases have only these codes.

82.6% of cases with any of these codes.

Possibles

20650
20670
20955
20999
23470
27031
27033
27054
27062
27071
27087
27090
27122
27125
27126
27130
27135
27170
27255
27299
27365
27470
27599
27814
52105

DRG 213 --- N = 69

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
23900	1	27880	5		
27075	1	27886	1		
27295	4	27290	1		
27590	7				
27596	4				
27598	1				
27884	2				

39.1% of cases have only these codes.

85.5% of cases with any of these codes.

Possibles

26989
27592
27599
27882
27899
28805
28899
38500

DRG 214-215 --- N = 404

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
22655	1	22617	1	22899	4
22670	1	64899	1		
61345	1				
62297	4				
62303	1				
63001	3				
63003	2				
63005	51				
63010	6				
63015	27				
63017	94				
63020	12				
63030	100				
63031	1				
63040	6				
63042	9				
63182	1				
63196	1				
63220	1				
63240	2				

84.4% of cases have only these codes.

96.8% of cases with any of these codes.

Possibles

20660
20922
20999
22326
22615
22680
22720
23929
31600
52100
63016
63075
63210
69999

DRG 216 --- N = 63

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
20225	4	20220	8		
24066	1	20240	5		
31050	1	20245	14		
32124	1				
61140	1				
68899	1				

57.1% of cases have only these codes.

73% of cases with any of these codes.

Possibles

11621
20999
21499
22899
24410
27071
27299
27454
27599
27899
41599
41899
49080
52100
58986
69999

DRG 217 --- N = 103

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11622	1	15100	3		
26124	1	27645	2		
69399	1				

7.8% of cases have only these codes.

29.1% of cases with any of these codes.

Possibles

11624	27299
11643	27301
15120	27331
15505	27345
15545	27360
15755	27372
15941	27470
17999	27580
20670	27599
20926	27640
20999	27814
21034	27822
21045	27899
21499	28124
21620	28315
21630	28899
21899	31225
23040	31230
23472	35646
23800	40840
23931	40844
24545	41899
24999	42120
25610	52100
25810	69999
25999	
26135	
26785	
26989	
27030	

DRG 218-219-220 --- N = 260

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
23615	8	24515	4	24410	1
23630	1	27455	36	24545	2
23680	1	27724	7	24579	1
24430	3	27870	13	27524	3
24435	8	28715	4	27814	8
24583	1			27822	5
24802	1				
27457	9				
27536	4				
27537	2				
27625	1				
27635	1				
27637	1				
27705	18				
27712	2				
27806	3				
27871	2				

57.3% of cases have only these codes.

81.9% of cases with any of these codes.

Possibles

15100	27599
17999	27607
20650	27640
20670	27700
20999	27766
23222	27823
23470	27899
23472	
23929	28725
24585	28899
24999	52202
27087	52601
27299	64718
	69999

DRG 221-222 --- N = 166

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27332	2	27350	3	27310	1
27334	4	27378	43	27373	50
27377	2	27457	1	27420	3
27405	1	27580	2	27422	3
27424	2				
27425	1				
28261	1				

74.1% of cases have only these codes.

88.6% of cases with any of these codes.

Possibles

20670
27311
27331
27374
27377
27440
27444
27446
27455
27599
27899
28160
28285

DRG 223-224 --- N = 295

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
23412	4	23410	28	23929	12
23420	22	23470	48	25611	3
23455	1	23472	66		
24100	1	24363	25		
24685	2	25240	6		
25375	1				
25405	1				
25620	3				

76.6% of cases have only these codes.

89.2% of cases with any of these codes.

Possibles

11401	25390
17999	25445
20670	25446
20999	25515
23042	25575
23222	25610
23462	25999
23465	26135
24102	26490
24105	26536
24130	26860
24579	26989
24685	27756
24700	32520
24999	46999
25119	49505
25310	52601
25360	55530

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
28112	1	28104	3	28150	2
28300	1	28114	1	28285	11
28306	4	28290	3	28725	4
28308	1	28292	4	28825	1
28750	3	28293	2	28899	31
28755	2	28296	6		
		28300	1		
		28820	6		

52.4% of cases have only these codes.

90.2% of cases with any of these codes.

Possibles

11403
20670
20900
20999
27612
27690
27822
27899
28110
28140
28160
28315
28715
28725
28730
28810

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
20975	1	20205	14	25116	2
22011	1	27385	7	27301	1
23110	1			27324	2
25005	1			27365	1
25290	1				
27066	2				
27326	2				
27340	1				
27650	1				
27685	2				
28000	1				
49020	1				
64788	1				
64830	1				

29.5% of cases have only these codes.

36.9% of cases with any of these codes.

Possibles

11200	25360	27075
11643	25446	27299
17999		27345
20670	25810	27373
20999	25999	27380
		27422
21600	26055	27599
21899	26135	27899
	26160	
22899	26418	28232
23210	26480	28285
23470	26490	28415
23929	26531	28899
24000	26735	31600
24105	26850	40799
24999	26860	49080
25066		52100
25115	26861	
25270	26989	64721
25280	27033	69999
25310	27062	
25331		

DRG 228-229 --- N = 246

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
25105	1	25111	4	25115	1
25215	1	25445	2	25331	9
25320	1	26055	9	25800	1
25443	5	26160	3	26075	1
26045	1	26735	2	26135	1
26120	22			26531	10
26122	29			26536	1
26372	1			26852	1
26525	1			26860	2
26540	1			26989	23
26565	1				
26862	2				
26910	1				
64722	1				

67.1% of cases have only these codes.

85.8% of cases with any of these codes.

Possibles

11441	26471
19120	26480
20670	26485
20999	26499
25000	26502
25116	26615
25310	26727
25810	26746
25999	26785
26145	26952
26210	52100
26418	64720
26434	64721

DRG 230 --- N = 41

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27086	2				
27088	2				

9.8% of cases have only these codes.

9.8% of cases with any of these codes.

Possibles

17999
20680
20999
24120
27033
27071
27075
27087
27130
27299
27303
27310
27355
27360
27372
27373
27599

27899
28810
28899
41899
49080
50230
52100
69999

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
21210	1			19260	2
24001	1			21499	1
24110	1			24120	2
24125	1			27374	8
24361	1				
26140	1				
26440	1				

10.6% of cases have only these codes.

31.1% of cases with any of these codes.

Possibles

11401	24999	27645
11423	25119	27792
11640	25170	27899
17340	25240	
17999	25310	28108
20660	25331	28110
20670	25610	28122
20680	25805	28140
20955	25810	28160
20999	25999	28285
21045	26075	28290
21497	26210	28292
21899	26477	28296
22617	26531	28725
22850	26536	28730
23042	26850	28810
23222	26860	28899
23410	26989	31030
23470	27070	31299
23472	27299	31600
23660	27372	38500
23800	27373	41899
23929	27378	43832
24000	27380	52100
24075	27444	52280
24102	27524	52601
24105	27599	61512
24130	27607	62141
24301	27610	64718
24363	27640	69999

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 8

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
21041	1	37609	113	21600	2
21240	2			30520	1
23120	1				
23550	1				
26545	1				
26841	1				
30150	1				
38700	1				
39599	2				
49201	1				
50205	4				
58150	1				
64776	1				
64795	4				

58.5% of cases have only these codes.

62.7% of cases with any of these codes.

Possibles

11406	28140
11643	28150
17999	28160
19101	28285
19260	28415
20650	28825
20660	28899
20670	30520
20999	30630
21045	30999
21060	31225
21235	31628
21499	33210
21899	36810
22310	36821
22325	36830
22605	38500
22899	38510
24999	38720
25805	38740
25810	40799
26105	40899
27290	41899
27299	44799
27331	49000
27420	49080
27454	50205
27524	52100
27766	52202
27792	58986
27814	60500
27822	64718
27823	69999
27899	

DRG 257-258 --- N = 518

CPT-4 Codes Which Appeared Singly in Predominately This DRG for MDC 9

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
19200	3	17499	14	19181	2
19245	7	19240	400		

81.9% of cases are only these codes

97.3% of cases with any of these codes

Possibles

15100
19180
19182
19499

DRG 259-260 ---N = 48

CPT-4 Codes Which Appeared Singly in Predominately This DRG for MDC9

<u>Only DRG</u>	<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>
19160	4	

8.3% of cases have only these codes

16.7% of cases with any of these codes

Possibles

11602	38740
11606	38745
19101	52202
19120	58150
19499	58999
20220	69999
38500	

DRG 261-262 --- N = 321

CPT-4 Codes Which Appeared Singly in Predominately This DRG for MDC 9

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
19121	3	19120	190	19180	18
19140	16			19499	7
19141	2				
19185	1				
19301	7				

76.6% of cases have only these codes

83.3% of cases with any of these codes

Possibles

11420	19240
17499	38510
17999	49999
19101	58999
19181	

DRG 263-264-265-266 --- N = 281

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 9

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11623	1	11622	2	11441	2
11626	1	11641	4	11621	1
15120	1	11642	6	17999	38
15600	1	11643	21	20999	7
15610	1	15100	33	21499	4
15930	2	27899	6	26989	5
23210	1	30999	3	27599	1
26860	1	38720	1	28899	8
27299	1				
38760	1				
69150	1				

70.1% of cases have only these codes.

91.5% of cases with any of these codes.

Possibles

11602
15933
15940
15943
25999
28805
38770
46999
52100
56600
69120
69399
69999

DRG 267 --- N = 6

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 9

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
46700	1				

16.7% of cases have only these codes.

16.7% of cases with any of these codes.

Possibles

17999

46999

58999

DRG 268 --- N = 34

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 9

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
28160	1			67999	1
28280	3				
30120	1				

17.6% of cases have only these codes.

23.5% of cases with any of these codes.

Possibles

11641
11642
11643
15120
15260
15823
17999
20902
21230
21499
28899
30999
40510
67999
69399

DRG 269-270 --- N = 147

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 9

Only DRG		75-99%		51-74%	
CPT-4	# of Cases	CPT-4	# of Cases	CPT-4	# of Cases
11404	1	21899	9	11621	1
11423	1	28810	3	11750	5
20005	1	49000	4	15940	2
20205	2	49999	2	27880	2
21556	1	69120	2	38500	6
22999	2			38510	1
23076	1			42426	1
27290	1				
27331	1				
28092	1				
28173	1				
37799	1				
40843	1				
42425	1				
45170	1				
49010	1				
49250	1				
49581	1				
55845	1				
64722	1				
67840	1				

42.2% of cases have only these codes.

51.7% of cases with any of these codes.

Possibles

11402	27899
11421	28820
11422	28899
11441	30150
11600	30999
11622	31899
11643	32480
15931	32500
15942	37799
15943	38745
17999	40500
20902	40840
20999	41599
21499	41899
21555	43620
24999	44130
25905	44144
25907	46999
25999	49505
26120	52100
26910	58940
26951	60500
26952	64640
26989	64721
27592	67999
27599	69399
	69554
	69660
	69999

DRG 285 --- N = 83

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27590	2			28899	4
27598	1				
27880	12				
28800	1				
28805	2				
28810	2				
28820	6				
28825	1				

47% of cases have only these codes.

92.8% of cases with any of these codes.

Possibles

20999
27592
27596
27599
27882
27884
27899

DRG 286 --- N = 62

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
49201	1				
50230	1				
60540	5				
60545	3				
60550	3				
61510	2				
61548	38				

87.1% of cases have only these codes.

96.8% of cases with any of these codes.

Possibles

21499

30999

31299

DRG 287 --- N = 26

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
28112	1	15100	6		

26.9% of cases have only these codes.

65.4% of cases with any of these codes.

Possibles

10061
15410
20999
26951
26989
27899
28899
49421
50360
52100
69999

DRG 289 --- N = 243

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
		60500	205		
		60505	-1		

84.8% of cases have only these codes.

94.7% of cases with any of these codes.

Possibles

11406
50630
60240
60245
60252
60510

DRG 290 --- N = 148

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
39010	1	60240	1	21899	2
59160	1	60245	65		
60200	12	60252	5		
60220	7				
60225	7				
60242	1				
60246	2				
60254	2				
60260	1				
60261	1				
60270	2				
60699	2				

76.4% of cases have only these codes.

96.6% of cases with any of these codes.

Possibles

60500
60505
60520
69999

DRG 291 --- N = 1

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

Only DRG
CPT-4 # of Cases

75-99%
CPT-4 # of Cases

51-74%
CPT-4 # of Cases

60280 1

100% of cases have only these codes.

DRG 292-293 --- N = 52

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 10

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11750	1			28112	2
19020	1				
19120	1				
20245	1				
26122	1				
27244	1				
27373	1				
27374	1				
36821	9				
38520	1				
44140	1				
45385	2				
48120	2				
49000	1				
67904	1				
67035	1				

53.8% of cases have only these codes.

63.5% of cases with any of these codes.

<u>Possibles</u>	
11406	37799
15822	38500
17999	41899
20670	44144
23929	
28114	51010
28899	52100
34201	54530
35102	64813
35301	67311
35656	67313
35661	67412
35666	67999
37609	69999

DRG 302 --- N = 80

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

<u>CPT-4</u>	<u>Only DRG</u> <u># of cases</u>	<u>75-99%</u>	<u>51-74%</u>
50360	54		

68% of cases have only these codes.

100% of cases with any of these codes.

DRG 303-305 --- N = 715

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

Only DRG
CPT-4 # of Cases

35531	1
49201	1
50060	1
50075	2
50120	4
50130	10
50220	50
50230	29
50234	6
50236	4
50240	5
50280	13
50320	24
50340	1
50400	4
50405	2
50600	1
50620	3
50630	2
50740	1
50780	1
50800	2
50820	1
50821	7
50954	1
51565	1
51570	2
51575	2
51580	1
51585	3
51595	62
51597	5

75-99%
CPT-4 # of Cases

38100	2
50040	1
50205	13
50341	1
50392	13
50560	1
50610	5
50785	4
51590	15

51-74%
CPT-4 # of Cases

52100	2
52105	15
52310	1

66.9% of cases have only these codes.
95.4% of cases with any of these codes.

Possibles

17999	49999
24105	50370
35102	50801
35251	51060
35641	52202
36810	52212
36821	52232
36830	52235
37799	52235
44160	52275
49000	52640
49010	54161
	69999

DRG 306-307 --- N = 89

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
52530	4	52601	16		
		52620	3		

21% of cases have only these codes.

82% of cases with any of these codes.

Possibles

51050
52100
52202
52232
52235
52240
52500
52640
53445
54150
55821
55845

DRG 308-309 --- N = 127

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11750	1	51840	4	58999	1
51010	4	51841	2		
51525	1	53445	16		
51550	5				
52305	1				
53447	3				

31% of cases have only these codes.

45.7% of cases with any of these codes.

Possibles

20999	52235
44661	52275
49000	52340
49505	52500
49560	52640
51530	53400
51555	53410
51800	53449
52100	53449
52105	54161
52202	54405
52212	54521
52222	55899
52232	69999

DRG 310-311 --- N = 967

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
27130	1	52202	390	52315	2
52107	1	52212	54	52340	12
		52222	5		
		52232	270		
		52235	36		
		52240	6		
		52500	15		
		52640	34		

85.5% of cases have only these codes.

93.7% of cases with any of these codes.

Possibles

19101	51060
27444	51555
31535	51590
41899	52100
44120	52105
47630	52270
49999	52280
50392	52310
50393	52601
50560	52620
50580	52805
50980	

DRG 312-314 --- N = 49

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
52276	5	53400	3	52275	2
53275	2				

53.1% of cases have only these codes.

71.4% of cases with any of these codes.

Possibles

50610
52100
52105
52270
52280
52290
52315
52640
53010
53021
55399

DRG 315 --- N = 97

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 11

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
20220	2	36821	33	36810	1
20240	1	60500	2	36830	4
32500	1			49180	1
58986	1				

49.5% of cases have only these codes.

74.2% of cases with any of these codes.

Possibles

37799
38500
38770
38771
44143
44799
49000
49010
49421
50040
51040
52100
52202
54161
58120
67999
69999

DRG 334-335 --- N = 217

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 12

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
55821	4	55845	91		
55831	3				
55840	1				
51590	1				
51595	2				

47% of cases have only these codes.

97.7% of cases with any of these codes.

Possibles

38771
51555
52202
52601

DRG 336-337 --- N = 1,289

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 12

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
52630	25	52601	758	52100	2
67909	1	52620	11	52202	3
				52212	1
				52232	1
				52235	1
				52640	7

73.3% of cases have only these codes.

99.7% of cases with any of these codes.

Possibles

52500
54521
55705

DRG 338-340 --- N = 478

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 12

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
54530	5	54520	19	38771	4
54830	2	55040	28	54521	240
54840	17				
54860	1				
55041	9				
54510	1				
49515	1				

73.6% of cases have only these codes.

98.5% of cases with any of these codes.

Possibles

52100
52310
52601
54405
54505
54661
55845
55899
64721

DRG 341 --- N = 205

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 12

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11422	1	54400	21	55899	11
11620	1	54405	121		
54105	1				
54120	5				
54125	1				
54360	1				

83.4% of cases have only these codes.

93.7% of cases with any of these codes.

Possibles

11621
38510
50392
50398
52100
52275
52601
54161
54521

DRG 342-343 --- N = 11

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 12

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
54154	1	54161	8		

100% of cases have only these codes.

DRG 344-345 --- N = 109

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 12

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
20225	1	38766	1	38771	46
20245	1			49010	2
50600	1				
50715	1				

49.5% of cases have only these codes.

49.5% of cases with any of these codes.

Possibles

11401	52235
20220	52280
20240	52315
20999	52500
38510	52620
38770	52640
39400	52640
44100	52800
49000	53021
50392	54161
50821	54521
52100	55705
52202	55899
52212	58936
52232	69999

DRG 353 --- N = 72

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
51597	3	58210	7	58240	2
56625	4				
56630	4				
56636	16				
56641	1				
58205	5				

56.9% of cases have only these codes.

70.8% of cases with any of these codes.

Possibles

17999
38500
44143
56620
58120
58150
58200
58999
69999

DRG 354-355 --- N = 497

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
58240	2	44145	1		
58260	2	58150	190		
58270	54	58200	21		
58280	1	58265	133		

81.7% of cases have only these codes.

98.2% of cases with any of these codes.

Possibles

35840

49201

DRG 356 --- N = 182

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
51865	1	51841	18	51840	33
57240	6	57260	13	57108	3
57265	48	57268	16		
57280	1				
57555	11				
57556	1				

83% of cases have only these codes.

94% of cases with any of these codes.

Possibles

17999
57250
57290
57410
57540
58210
58999

DRG 357-358-359 --- N = 73

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
58940	2	58720	19	44143	1
58945	1				

31.5% of cases have only these codes.

43.8% of cases with any of these codes.

Possibles

44140
44145
49000
49201
50220
52100
57108
57540
58120
58150
58982
58999

DRG 360 --- N = 73

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u>		<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11621	1		
38766	1		
56440	1		
56515	1		
56600	1		
56740	1		
56800	1		
57135	3		
57550	2		
		56620	6
		57410	1
		58999	19

49.3% of cases have only these codes.

63% of cases with any of these codes.

Possibles

11401
17999
26860
41899
47600
49200
49201
51010
57108
57250
57260
57520
57540
57550
58120
69999

DRG 362 --- N = 2

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u>		<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
		58982	2

100% of cases have only these codes.

DRG 363-364 --- N = 125

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u> <u>CPT-4 # of Cases</u>	<u>75-99%</u> <u>CPT-4 # of Cases</u>	<u>51-74%</u> <u>CPT-4 # of Cases</u>
	58120	110

88% of cases have only these codes.

95.2% of cases with any of these codes.

Possibles

49000

57520

58999

DRG 365 --- N = 21

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 13

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
44130	1			49000	9
44160	1				
49010	1				
50821	1				

61.9% of cases have only these codes.

76.2% of cases with any of these codes.

Possibles

38510
44120
49201
50040
52100
57320
58999
69999

DRG 392-393 --- N = 37

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 16

<u>Only DRG</u>	<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>
38100 20		

54.1% of cases have only these codes.

97.3% of cases with any of these codes.

Possibles

24585

25515

25545

49000

DRG 394 --- N = 65

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 16

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
17999	1			49000	4
19120	1			69999	1
21899	3				
32500	2				
38500	17				
38510	14				
39010	1				
39200	2				
39220	1				
39400	1				
42415	1				
42440	1				
49999	1				
60520	2				

83.1
~~98.5~~ % of cases have only these codes.
 95.4
~~96.9~~ % of cases with any of these codes.

Possibles

20999

25900

34101

49301

52280

DRG 400-406-407 --- N = 332

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 17

<u>Only DRG</u>		<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
11602	1	44310	1	19260	2	17999	2
11604	1	44320	2	32100	4	21499	1
11643	2	44799	1	38720	20	69999	13
24999	1	47100	1	39400	7		
32095	3	47999	4	49000	22		
32124	2	49201	7	49010	7		
32500	1	49220	2	49999	4		
37799	1	49530	1				
38100	23	49581	1				
38701	1	50120	1				
38766	1	50205	6				
38700	1	58140	1				
39010	5	58720	2				
39220	2	58150	1				
42426	5	60254	1				
43120	1	60500	1				
43320	1	60520	1				
43620	2	61210	1				
43630	4	61304	1				
43820	2	61305	1				
44120	7	61510	6				
44130	4	63005	1				
44140	1	63215	1				
44143	2	63700	1				
44144	1	64640	1				
44145	2	67999	2				
44160	3						

75% of cases have only these codes.

92.8% of cases with any of these codes.

Possibles

11601	38700
11606	38745
15100	38760
15745	38765
20220	38770
21899	39499
31525	42420
31600	47600
32035	49080
32480	49255
33970	49505
33999	52202
35820	58999
38500	60520
38510	

DRG 401-402-408 --- N = 251

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 17

<u>Only DRG</u>		<u>75-99%</u>		<u>51-74%</u>	
<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>	<u>CPT-4</u>	<u># of Cases</u>
20245	8	38500	45	20220	1
21556	1	38510	51	21899	9
22999	1	38745	6	38760	1
23066	1	49180	4	42420	1
25999	1	52202	20	46999	2
27599	3	58999	8	49080	1
27324	1				
38540	1				
38700	1				
42440	1				
52212	1				
52232	4				
54521	1				
57410	1				
58986	1				
67840	1				
69440	1				

74.1% of cases have only these codes.

84.5% of cases with any of these codes.

Possibles

11601	49000
20240	49010
21345	49301
21499	49505
27299	49506
28104	49999
31613	50392
32100	50398
32500	52100
38720	52202
38771	64721
39400	69999
42415	
43830	

DRG 415 --- N = 151

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 18

Only DRG
CPT-4 # of Cases

75-99%
CPT-4 # of Cases

51-74%
CPT-4 # of Cases

10061 1
17999 5
19120 1
19499 1
20999 3
21499 3
21899 2
24999 1
26989 3
27031 1
27088 1
27299 3
27580 1
27590 1
27596 1
27599 2
27899 3
28899 3
31628 1
32095 1
32500 1
32810 1
36821 1
37609 8
38100 1
38500 1
47610 1
47999 1
49000 2
49020 1
49040 1
49999 7
50370 1
50392 1
52202 1
52601 2
55899 1
66625 1
69999 14

64.9% of cases have only these codes.

90.7% of case with any of these codes.

Possibles

22899
23120
23929
27244
31600
32480
33100
33970
33999
35381
39499
41899
42415
44100
44120
46999
49010
49060
49080
50630
51045
52100
52232
54521

DRG 424 --- N = 31

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 19

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
11442	1				
11640	1				
17999	2				
19120	2				
21899	1				
27130	1				
27536	1				
31600	2				
37609	1				
38510	1				
44150	1				
47600	2				
49560	1				
52601	3				
54405	1				
54521	1				
58120	1				
64721	1				

80.6% of cases have only these codes.

90.3% of cases with any of these codes.

Possibles

33481
33999
45385
49505
52100
52276
52500
52640

DRG 439 --- N = 42

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 21

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
15100	3				

7.1% of cases have only these codes.

59.5% of cases with any of these codes.

Possibles

15120
15942
17999
20650
21899
26989
27122
27299
27899
30999
40799
42999
69999

DRG 440 --- N = 64

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 21

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
58999	1				

9.4% of cases have only these codes.

15.6% of cases with any of these codes.

Possibles

15942
17999
19499
20670
20999
21499
21899
24999
25800
25999
26989
27090
27091
27299
27311
27331
27372
27444
27580
27596
27599
27700
27882
27899
28899
30999
33999
35900
37799
52100
53447
58999
64818

DRG 441 --- N = 22

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 21

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
15550	1				
15620	1				
26075	1				
26320	1				
26392	1				
26480	1				
26516	1				
26951	1				

36.4% of cases have only these codes.

40.9% of cases with any of these codes.

Possibles

11442
20670
20999
23331
23929
25310
25311
25515
25999
26210
26525
26850
26860
26989
27284
27393

DRG 442-443 --- N = 648

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 21

Only DRG		Only DRG		75-99%		51-74%	
CPT-4	# of Cases	CPT-4	# of Cases	CPT-4	# of Cases	CPT-4	# of Cases
17340	1	36810	1	19499	7	21899	3
15824	1	36821	2	20670	6	23929	1
19120	1	39499	3	20999	3	24999	1
19331	1	43620	1	21499	4	27310	1
20680	5	43630	1	27091	3	27311	1
22850	1	43860	2	27122	3	27331	4
22899	1	44120	1	27299	11	27599	9
23412	1	44143	1	27372	2	35900	1
23470	1	44144	1	27444	13	69999	46
23472	2	44145	1	27580	3		
26449	1	44160	1	33999	4		
27031	1	44320	1	35646	4		
27033	2	44625	1	36830	11		
27066	1	44640	2	37799	26		
27087	8	45110	1	49999	6		
27088	4	46270	1	64818	1		
27125	1	46999	1				
27130	12	47130	1				
27131	6	47420	1				
27135	28	47600	2				
27253	2	47760	1				
27305	1	49000	3				
27334	1	49421	3				
27373	3	49565	1				
27380	1	49900	2				
27438	2	50205	24				
27455	1	50360	2				
27488	2	50398	2				
27720	1	50801	1				
27724	1	52105	1				
27870	3	52107	1				
27880	3	52275	1				
28192	1	53449	1				
28292	1	54320	1				
31599	1	54402	1				
31600	1	54405	1				
33205	3	55899	3				
33330	1	57300	1				
34001	1	61310	1				
34101	1	61311	1				
34201	5	62192	1				
35141	1	62230	1				
35286	3	62256	1				
35371	1	64899	1				
35631	1	65093	1				
35656	4	65175	1				
35661	5	65740	4				
35665	1	65810	1				
35840	1	65920	1				

CONTINUED ON NEXT PAGE.....

DRG 442-443 --- N = 648

(continued)

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 21

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>	<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
66170	1				
66250	8				
66635	1				
66999	4				
67005	1				
67035	7				
67107	1				
67120	2				
67255	1				
67311	1				

79.3% of cases have only these codes.

95.4% of cases with any of these codes.

Possibles

15820	44140
15845	44661
17999	44799
22670	47600
22680	48140
22720	50220
22889	50370
25999	50770
26490	51535
26989	51590
27592	52100
27602	53447
27899	55041
28899	55170
30430	57410
33210	62256
34151	63017
38100	64721
40799	
43880	

DRG 458 --- N = 8

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 22

<u>Only DRG</u>	<u>75-99%</u>	<u>51-74%</u>
<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>	<u>CPT-4 # of Cases</u>
15100 5		

62.5% of cases have only these codes.

100% of cases with any of these codes.

DRG 459 --- N = 1

CPT-4 Codes Which Appeared Singly in Predominantly This DRG for MDC 22

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>
27899	1

<u>CPT-4</u>	<u>75-99%</u> <u># of Cases</u>
--------------	------------------------------------

<u>CPT-4</u>	<u>51-74%</u> <u># of Cases</u>
--------------	------------------------------------

100% of cases have any of these codes.

DRG 461 --- N = 92

CPT-4 Codes Which Appeared Singly in Predominately This DRG for MDC 23

<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>	<u>CPT-4</u>	<u>Only DRG</u> <u># of Cases</u>
17499	1	37799	1
17999	1	44625	2
19180	1	49000	5
20670	1	49080	3
20680	1	50205	1
20999	1	51040	1
21215	1	52202	4
22645	1	52601	2
22670	1	54405	1
22899	1	58120	1
25999	1	60540	1
26392	1	66920	1
27130	8	66985	1
27131	4	66999	2
27135	3	67999	1
27365	1	69999	1
27444	1		
27487	2		
27899	2		
28899	1		
31360	1		
31599	1		
31899	1		
37609	6		

84.8% of cases have only these code
91.3% of cases have only these code

Possibles

10120	38740
11421	41899
19184	44005
19499	44140
20926	44620
24999	52100
31820	
31830	
33205	
33999	

APPENDIX C

Revised CPT-4 Non-OR Procedures (4th Edition)

Revised CPT-4 Non-OR Procedures (4th Edition)

10000-10081	21820	24600-24605
10120-10160	22010	24620
11100-11201	22305-22315	24640-24655
11900-11954	22500-22505	24670-24675
12001-12057	23030	24700
15790-15791	23065	25065
15810-15811	23330	25246
16000-16010	23350	25500-25505
16020-16030	23500-23505	25530-25535
17360-17380	23520-23525	25560-25565
19000-19100	23540-23545	25600-25610
20000-20200	23570-23575	25622-25624
20500-20501	23600-23605	25630-25635
20550-20610	23620-23625	25660
20660	23650-23655	25675
20665-20670	23665	25680
21100-21110	23675	25690
21315-21320	23700	25700
21380	23930	26010
21400-21401	24065	26025-26032
21421	24200	26600-26605
21431	24220	26641-26645
21440	24500-24505	26670-26675
21480-21485	24530-24536	26700-26705
21497	24560-24565	26720-26725
21501	24576-24577	26740-26743
21800	24580-24581	26750-26755

Revised CPT-4 Non-OR Procedures (4th Edition)

26770-26775	27648	30900-30906
26990	27750-27752	31000-31021
27040	27760-27762	31500-31526
27086	27780-27781	31612-31635
27093-27095	27786-27788	31645-31725
27190-27191	27800-27802	32000-32036
27195-27200	27808-27810	32400
27210-27211	27816-27818	32405-32420
27220-27222	27830-27831	32810
27230-27232	27840-27842	32960
27238-27240	27860	32999
27246	28190	33010-33011
27250-27252	28400-28405	33210
27256-27257	28430-28435	33738
27275	28450-28455	33970-33972
27323	28470-28475	36000-36660
27370	28490-28495	38090
27500-27502	28510-28515	38200
27508-27510	28540-28545	38790-38791
27516-27517	28570-28575	40490-40520
27520	28600-28605	40800-40810
27530-27532	28630-28635	40819-40830
27538	28660-28665	41000-41005
27550-27552	29000-29799	41010-41018
27560-27562	30000-30124	41100-41110
27570	30200-30310	41115-41116
27613	30800	41250-41251
		41500

- Revised CPT-4 Non-OR Procedures (4th Edition)

41800-41828	49080-49081	55200-55300
41850	49400-49420	55700
42000	49430-49440	56100
42300-42320	50200	56700-56720
42330-42405	50390-50398	57020
42550	50550-50580	57150-57170
42650-42665	50684-50690	57400-57454
42800-42806	50950-50961	57600-57620
42809	51000-51010	57800
43200-43223	51045	58100-58103
43226	51600-51750	58300-58350
43235-43247	52000-52190	59000-59050
43450-43460	52204	59300
43600	52214	59400-59430
43700-43714	52224	59800
43830-43832	52234	59810
43870	52250-52265	59850
44100	52281-52283	60100
44360-44388	52310	61000-61070
45100-45105	52320-52335	62270-62294
45300-45319	53200	63600-63610
45360-45367	53600-53675	64400-64565
45371-45380	54000-54001	64600-64680
45386	54050-54055	65205-65222
45520-45521	54200	65272
45900-45915	54220	66030
46230	54500	66761-66762
46320-46614	54600	
46900-46942	54800	
47000	55000	
47500	55100-55120	

- Revised CPT-4 Non-OR Procedures (4th Edition)

67104-67106

67144-67146

67214-67216

67224-67226

67500-67510

67700

67938

68200

68850

69000-69110

69140-69145

69200-69210

69400-69401

69431-69432

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Type of Entry : P
Project Number : 18-C-98631
Principal Investigator/Author : NORBREGA, FRED T
Organization : MAYO FOUNDATION

Title : FEASIBILITY OF INCORPORATING CPT-4 CODES FOR PHYSICIAN BILLING INTO THE DRG SYSTEM
FOR IN-HOSPITAL MEDICARE

Sponsor : HCFA
Project Officer : SOBASKI, WILLIAM
Status (Active, Compl'd, Term'd) : C
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Keywords : CPT-4 CODES, PHYSICIAN DRGS, BILLING

Project Description/Abstract : THE PURPOSE OF THIS PROJECT IS TO DETERMINE THE
FEASIBILITY OF USING CPT-4 PROCEDURE CODES IN
CONCERT WITH ICD-9-CM DIAGNOSIS CODING AND PATIENT
CHARACTERISTICS TO DETERMINE DRG CLASSIFICATION
FOR SURGICAL CASES. THE METHOD WOULD LINK THE
CPT-4 CODED BILLING RECORDS WITH ICD-9-CM CODED
MEDICAL RECORDS OF APPROXIMATELY 10,000 MEDICARE
SURGICAL CASES TREATED BY MAYO CLINIC IN 1983.
STATISTICAL ANALYSES WILL BE UNDERTAKEN OF THIS
METHOD.

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